

CLAIMS

1. A device for dressing a tool having a plurality of teeth, wherein said device comprises a support surface having guiding elements, said guiding elements having at least two movable positioning elements, said movable positioning elements being adapted to be locked in a fixed position within said guiding elements such that said positioning elements form a stop for said tool to be dressed; and a dressing tool mounted in a holding device positioned in front of a dressing side of said support surface,

wherein said dressing tool is locked in position by a locking element during the dressing of said teeth, hence said dressing tool not being movable at least in a direction running substantially parallel to said dressing side;

wherein said positioning elements are arranged in said guiding elements in said support surface such that said tool to be dressed engages with said positioning elements at its side turned towards said dressing side of said support surface, so that said tool to be dressed can be moved towards said positioning elements by a feed movement proceeding in a feed direction starting from a feed side of the support surface, said feed side being located opposite said dressing side of said support surface, and being directed towards said dressing side; and

wherein said engagement between said positioning elements and said tool to be dressed can be discontinued by a return movement of said tool to be dressed, said movement being oppositely directed to said feed movement.

2. The device according to claim 1, wherein said support surface is designed in such a way and that said positioning elements are arranged in said support surface so that the engagement between said positioning elements and said tool is discontinued by pulling back said tool in said direction opposite said feed movement and said tool to be dressed can be rotated on said support surface of said device, for positioning said tool in its subsequent dressing position.

3. The device according to claim 2, wherein one positioning element is positioned in one guiding element.

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Sub A⁷ 4. The device according to any one of claims 1 to 3, wherein at least one of said guiding elements is extending substantially over the entire length of said support surface.

10 5. The device according to any one of claims 1 to 4, wherein at least one of said guiding elements is designed as an elongated slot or an opening in said support surface.

6. The device according to claim 5, wherein said support surface comprises a matrix-like grid of openings.

20 Sub A⁸ 7. The device according to any one of claims 1 to 6, wherein at least one of said elongated slots acting as guiding element is of a linear or of a curved design.

8. The device according to any one of claims 1 to 7, wherein at least one of said elongated slots acting as guiding elements is positioned substantially parallel to the longitudinal direction of said support surface.

25 9. The device according to any one of claims 1 to 8, wherein at least one of said elongated slots acting as guiding elements is positioned inclined to the longitudinal direction of said support surface.

30 10. The device according to any one of claims 1 to 9, comprising a mounting device for a pin shaped tool.

11. The device according to any one of claims 1 to 10, wherein said mounting device is pivotally connected to said device for dressing said tool.

12. The device according to any one of claims 1 to 11, wherein said mounting device

comprises at least two mounting blocks, said mounting blocks defining a space wherein an adapter can be inserted with clearance.

13. The device according to any one of claim 1 to 12, wherein said adapter having a mounting opening, said mounting opening being capable of receiving said pin shaped tool.

14. The device according to any one of claim 1 to 13, wherein said adapter comprises an extension, said extension being inserted into one of said spaces defined by said mounting blocks.

15. The device according to any one of claims 1 to 14, wherein said adapter additionally comprises a clamping arrangement for securing a pin-shaped tool in said mounting device of said adapter.

16. The device according to claim 15, wherein said clamping arrangement comprises a tightening screw possessing a body.

17. The device according to any one of claims 1 to 16, wherein said body of said tightening screw can be inserted in one of said spaces of said mounting device.

18. The device according to any one of claims 1 to 17, wherein said holding device for said dressing tool comprises a guide rail along which said dressing tool can be moved and can be locked in position by means of said locking element.

19. The device according to any one of claims 1 to 18, wherein said holding device additionally comprises a ball end bearing said dressing tool and enabling said dressing tool to be tilted.

20. The device according to any one of claims 1 to 19, wherein said holding device possesses an adjustment means for positioning said dressing tool.